

SEQUENCE LISTING

<110> KREUTZER, CAROLINE
 MOCKEL, BETTINA
 PFEFFERLE, WALTER
 EGDELING, LOTHAR
 SAHM, HERMANN
 PATEK, MIROSLAV

<120> L-LYSINE PRODUCING CORYNEBACTERIA AND
 PROCESS FOR THE PREPARATION OF LYSINE

<130> 21123/278416/MAS

<140> 09/810,521

<141> 2001-03-19

<150> DE 199 31314.8

<151> 1999-05-07

<160> 18

<170> PatentIn Ver. 2.1

<210> 1

<211> 795

<212> DNA

<213> Corynebacterium glutamicum

<220>

<221> -35_signal

<222> (774)..(779)

<220>

<223> DNA upstream from dapB

<400> 1

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<210> 2

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<222> (774) . . (779)

<222> (798) . . (803)

<222> (851) . . (1594)

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tccggtatcg atacctggaa cgacaacctg atcaggatat ccagtgcctt gaatattgac 180

gttgaggaag gaatcaccaq ccatctcaac tggaagacct gacgcctgct gaattggatc 240

agtggcccaa tcgaccacc aaccagggttg gccattaccg gcgatatcaa aaacaactcg 300

tgtgaacggt tcgtgctcgg caacgcggat gccagcgatc gacatatcgg agtcaccaac 360

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aggggggagt ttggtgcact ctgaaccgag tggctctctga agtggtaggc gacggggcag 480

ctatctgaaq qcgtgcgaqt tgtggtgacc gggttagcgg tttagatttc tgtcacaact 540

qgaqcaggac tagcagaagt tctagqcqtt gaqccqcttc catcacaagc acttaaaaagt 600

aaagaggcgg aaaccacaag cgccaaggaa ctactgcgga acgggcggtg aaaggcaact 660

taagtctcat atttcaaaca taqttccacc tgtgtgatta atccctagaa cqgaacaaac 720

tqatgaacaa tcgttaacaa cacagaccaa aacggtcagt taqgtatgga tatcagcacc 780

ttctgaacgq gtacgtctag actggtgggc gtttgaaaaa ctcttcgccc cacgaaaatg 840

aaggagcata atg gga atc aaq gtt qgc gtt ctc qga qcc aaa qgc cgt 889

Met Gly Ile Lys Val Gly Val Leu Gly Ala Lys Gly Arg
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ggt ggt caa act att gtg gca gca gtc aat gag tcc gac gat ctg gag 937

Val Gly Gln Thr Ile Val Ala Val Asn Glu Ser Asp Asp Leu Glu

ctt gtt gca gag atc ggc gtc gac gat gat ttg agc ctt ctg gta gac 985

Leu Val Ala Glu Ile Gly Val Asp Asp Asp Leu Ser Leu Leu Val Asp
30 35 40 45

aac ggc gct gaa gtt gtc gtt gac ttc acc act cct aac gct gtg atg 1033

Asn Gly Ala Glu Val Val Asp Phe Thr Thr Pro Asn Ala Val Met

ggc Gly	aac Asn	ctg Leu	gag Glu	ttc Phe	tgc Cys	atc Ile	aac Asn	aac Asn	ggc Gly	att Ile	tct Ser	gcg Ala	gtt Val	gtt Val	gga Gly	1081
			65			70						75				
acc Thr	acg Thr	ggc Gly	ttc Phe	gat Asp	gat Asp	gct Ala	cgt Arg	ttg Leu	gag Glu	cag Gln	gtt Val	cgc Arg	gac Asp	tgg Trp	ctt Leu	1129
			80			85						90				
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cct Pro	tca Ser	ggc Gly	acc Thr	gcg Ala	atc Ile	cac His	act Thr	gct Ala	cag Gln	ggc Gly	att Ile	gct Ala	gcg Ala	gca Ala	cgc Arg	1321
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aaa Lys	gaa Glu	gca Ala	ggc Gly	atg Met	gac Asp	gca Ala	cag Gln	cca Pro	gat Asp	gcg Ala	acc Thr	gag Glu	cag Gln	gca Ala	ctt Leu	1369
			160			165						170				
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			175			180						185				
cgc Arg	atg Met	tcc Ser	ggc Gly	atg Met	gtt Val	gct Ala	cac His	gag Glu	caa Gln	gtt Val	atc Ile	ttt Phe	ggc Gly	acc Thr	cag Gln	1465
			190			195			200						205	
ggg Gly	cag Gln	acc Thr	ttg Leu	acc Thr	atc Ile	aag Lys	cag Gln	gac Asp	tcc Ser	tat Tyr	gat Asp	cgc Arg	aac Asn	tca Ser	ttt Phe	1513
			210						215						220	
gca Ala	cca Pro	ggg Gly	gtc Val	ttg Leu	gtg Val	ggg Gly	gtg Val	cgc Arg	aac Asn	att Ile	gca Ala	cag Gln	cac His	cca Pro	ggc Gly	1561
			225			230						235				
cta Leu	gtc Val	gta Val	gga Gly	ctt Leu	gag Glu	cat His	tac Tyr	cta Leu	ggc Gly	ctg Leu	taaaggctca	tttcagcagc				1614
			240			245										
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ggagttgata gcggtgcagtt cttttactcc acccgctgat gttgagtggg caactgatgt																1734
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 <212> PRT
 <213> Corynebacterium glutamicum

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 Glu Ile Gly Val Asp Asp Asp Leu Ser Leu Leu Val Asp Asn Gly Ala
 35 40 45
 Glu Val Val Val Asp Phe Thr Thr Pro Asn Ala Val Met Gly Asn Leu
 50 55 60
 Glu Phe Cys Ile Asn Asn Gly Ile Ser Ala Val Val Gly Thr Thr Gly
 65 70 75 80
 Phe Asp Asp Ala Arg Leu Glu Gln Val Arg Asp Trp Leu Glu Gly Lys
 85 90 95
 Asp Asn Val Gly Val Leu Ile Ala Pro Asn Phe Ala Ile Ser Ala Val
 100 105 110
 Leu Thr Met Val Phe Ser Lys Gln Ala Ala Arg Phe Phe Glu Ser Ala
 115 120 125
 Glu Val Ile Glu Leu His His Pro Asn Lys Leu Asp Ala Pro Ser Gly
 130 135 140
 Thr Ala Ile His Thr Ala Gln Gly Ile Ala Ala Ala Arg Lys Glu Ala
 145 150 155 160
 Gly Met Asp Ala Gln Pro Asp Ala Thr Glu Gln Ala Leu Glu Gly Ser
 165 170 175
 Arg Gly Ala Ser Val Asp Gly Ile Pro Val His Ala Val Arg Met Ser
 180 185 190
 Gly Met Val Ala His Glu Gln Val Ile Phe Gly Thr Gln Gly Gln Thr
 195 200 205
 Leu Thr Ile Lys Gln Asp Ser Tyr Asp Arg Asn Ser Phe Ala Pro Gly
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<210> 4
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<212> DNA
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<220>
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<210> 5
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<220>
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<210> 6
 <211> 80
 <212> DNA
 <213> Artificial Sequence

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<220>
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<400> 6
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<210> 7
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<220>
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<400> 7
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<210> 8
<211> 27
<212> DNA
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<220>
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Primer

<400> 8
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<210> 9
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<400> 9
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<210> 10
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<210> 11
<211> 24
<212> DNA
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<400> 11
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<210> 12
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<210> 14
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<223> Description of Artificial Sequence: Artificial
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40

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<223> Description of Artificial Sequence: Artificial
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39

<213> Artificial Sequence

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Primer

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